

L Number	Hits	Search Text	DB	Time stamp
1	682	"PLAY LIST" OR "PLAY LISTS"	USPAT; US-PGPUB; EPO; IBM_TDB	2003/07/01 15:59
2	232	("PLAY LIST" OR "PLAY LISTS") AND DEDICAT\$3	USPAT; US-PGPUB; EPO; IBM_TDB	2003/07/01 15:59
3	171	((("PLAY LIST" OR "PLAY LISTS") AND DEDICAT\$3) AND NETWORK	USPAT; US-PGPUB; EPO; IBM_TDB	2003/07/01 16:00
4	138	((("PLAY LIST" OR "PLAY LISTS") AND DEDICAT\$3) AND NETWORK) AND INTERNET	USPAT; US-PGPUB; EPO; IBM_TDB	2003/07/01 16:00
5	1	DEDICATION WITH "PLAY LIST"	USPAT; US-PGPUB; EPO; IBM_TDB	2003/07/01 16:00
6	1	DEDICATION SAME "PLAY LIST"	USPAT; US-PGPUB; EPO; IBM_TDB	2003/07/01 16:01
7	10	DEDICATION SAME SONG	USPAT; US-PGPUB; EPO; IBM_TDB	2003/07/01 16:02
8	22771	INTERNET AND RADIO	USPAT; US-PGPUB; EPO; IBM_TDB	2003/07/01 16:02
9	5	INTERNET AND BRAODCAST	USPAT; US-PGPUB; EPO; IBM_TDB	2003/07/01 16:03
10	15532	INTERNET AND BROADCAST	USPAT; US-PGPUB; EPO; IBM_TDB	2003/07/01 16:03
11	5	(INTERNET AND BRAODCAST) AND (INTERNET AND BROADCAST)	USPAT; US-PGPUB; EPO; IBM_TDB	2003/07/01 16:03

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Classif
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020091991 A1	20020711	316	Unified real-time microprocessor computer	717/106		
2	<input type="checkbox"/>	<input type="checkbox"/>	US 20020006801 A1	20020117	13	Resource allocating and service providing over a wireless network	455/461	455/459	
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6539544 B2	20030325	48	Game machine system, broadcasting system, data distribution system, and method, program executing apparatus and method	717/177	463/42	
4	<input type="checkbox"/>	<input type="checkbox"/>	US 6374404 B1	20020416	17	Intelligent device having background caching of web pages from a digital television broadcast signal and method of same	725/46	725/112; 725/136; 725/37; 725/40	
5	<input type="checkbox"/>	<input type="checkbox"/>	EP 1100031 A2	20010516	8	System and methods for providing instant internet response to traditional broadcast advertising			

	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
1	Castro, Juan Carlos	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 20020091991	<input type="checkbox"/>
2	Siren, Ritva	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 20020006801	<input type="checkbox"/>
3	Ebisawa, Kan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6539544	<input type="checkbox"/>
4	Brotz, Mario Udo et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6374404	<input type="checkbox"/>
5	STELLING, JONATHAN MILES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EP 1100031 A2	<input type="checkbox"/>

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L2: Entry 2 of 327

File: USPT

Jun 17, 2003

US-PAT-NO: 6581103

DOCUMENT-IDENTIFIER: US 6581103 B1

TITLE: Method for internet radio broadcasting including listener requests of audio and/or video files with input dedications

DATE-ISSUED: June 17, 2003

INVENTOR-INFORMATION:

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ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Dedicated Radio, LLC					02

APPL-NO: 09/ 422159 [PALM]

DATE FILED: October 22, 1999

INT-CL: [07] G06 F 15/16

US-CL-ISSUED: 709/231; 709/203, 709/219, 709/232, 707/1

US-CL-CURRENT: 709/231; 707/1, 709/203, 709/219, 709/232

FIELD-OF-SEARCH: 709/203, 709/219, 709/231, 709/232, 707/1

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5890910</u>	April 1999	Tsurumi et al.	434/307A
<input type="checkbox"/>	<u>5893091</u>	April 1999	Hunt et al.	707/3
<input type="checkbox"/>	<u>5918223</u>	June 1999	Blum et al.	707/1
<input type="checkbox"/>	<u>5947746</u>	September 1999	Tsai	434/307A
<input type="checkbox"/>	<u>5953005</u>	September 1999	Liu	345/302
<input type="checkbox"/>	<u>6006218</u>	December 1999	Breese et al.	707/3
<input type="checkbox"/>	<u>6069310</u>	May 2000	James	84/645
<input type="checkbox"/>	<u>6085253</u>	July 2000	Blackwell et al.	709/235
<input type="checkbox"/>	<u>6175822</u>	January 2001	Jones	704/270
<input type="checkbox"/>	<u>6311161</u>	October 2001	Anderson et al.	704/500
<input type="checkbox"/>	<u>6374225</u>	April 2002	Hejna, Jr.	704/270
<input type="checkbox"/>	<u>6389463</u>	May 2002	Bolas et al.	709/219
<input type="checkbox"/>	<u>2001/0042109</u>	November 2001	Bolas et al.	709/219

ART-UNIT: 2758

PRIMARY-EXAMINER: El-Hady; Nabil

ABSTRACT:

A method of Internet radio broadcasting, which provides for including listener dedications to accompany the broadcast of a requested final selection audio and/or video file.

2 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

BRIEF SUMMARY:

- 1 BACKGROUND OF THE INVENTION
- 2 Our patent suggestion is for Internet Radio Broadcasting to allow users to make requests from their Internet Browsers or other client applications accessing the Internet and hear them over the Internet. Currently there aren't any Internet applications that allow for users to make real time requests for music or select audio songs, have them played back in an orderly fashion while allowing for the optional use of typed dedications to be spoken back over the audio stream.
- 3 FIELD OF THE INVENTION
- 4 The field of this invention relates to broadcasting and more particularly to broadcasting of radio over the Internet to be received by listeners oil computers and other Internet aware devices.
- 5 DESCRIPTIONS OF THE RELATED ART
- 6 The broadcasting of radio by means of the Internet is a fairly recent development. When a listener logs onto a particular web site, audio files, usually songs, are played. The selections of which audio files are to be played are controlled by the owner or operator of the web site.
- 7 In the past, in conjunction with conventional radio a desirable procedure was to

get the listeners involved in conjunction with the broadcasting station. Generally, this type of procedure increased the number of listeners, and of course the greater number of listeners the more successful a radio station. One way to get the listeners involved is to have the radio station accept requests for particular songs or to hear certain audio files, such as a comedy routine. Generally, within conventional radio stations, requests are taken by telephone. It would be desirable to somehow incorporate in conjunction with an Internet radio station a technique for the Internet radio station to accept requests and dedications from listeners.

8 BRIEF SUMMARY OF THE INVENTION

- 9 The primary embodiment of the present invention relates to a method of Internet radio broadcasting including listener requests and dedications which comprises of the following steps after a listener logs onto an Internet radio station. The primary embodiment then displays a search screen on the computer screen of the listener, which allows the listener to search for a particular audio and/or video. The listener then selects by the search screen a selected audio and/or video. The next step involves displaying on the computer screen of the listener a search results screen which displays one or more audio and/or videos which correspond to the audio and/or video search information inputted by the listener. The listener then selects a particular audio and/or video file in the search results screen. Also displayed on the search results screen is a dedication section allowing the listener to input a dedication to be spoken prior to the selected audio and/or video file. The listener inputs his/her dedication into this section. He/she may either type this dedication or upload his/her own voice. Then displayed on the computer screen is an accepted screen that informs the listener when the selected file is to be broadcasted with the accompanying dedication, if the dedication was made by the listener.
- 10 A further embodiment of the present invention is where the basic embodiment is modified by the audio and/or video file comprising a song.
- 11 A further embodiment of the present invention is where the basic embodiment is modified by further broadcasting the dedication by using a text-to-speech engine.
- 12 A further embodiment of the present invention is where the just previous embodiment is modified by the audio and/or video file comprising a song.

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DRAWING DESCRIPTION:

BRIEF DESCRIPTION OF THE DRAWINGS

For a better understanding of the present invention, reference is to be made to the accompanying drawings. It is to be understood that the present invention is not limited to the precise arrangement shown in the drawings.

FIG. 1 is a block diagram of the method of Internet radio broadcasting including listener requests and dedications of the present invention;

FIG. 2 is a representation of a search screen that is to be displayed on a listener computer screen that allows for searching for a particular audio and/or video file;

FIG. 3 is a representation of a search results screen which is to be displayed on the listener computer screen and includes one section for the audio and/or video files available for final selection and another section for the optional input of a dedication; and

FIG. 4 is a representation of an accepted screen, which is to be displayed on the listener computer screen.

DETAILED DESCRIPTION:

1 DETAILED DESCRIPTION OF THE INVENTION

- 2 The invention is an Internet technology and Application technology to allow users of the Internet not only to search for musical artists or other audio and/or video files and select audio and/or video files for the Internet site to play back via streaming media, but also to type in dedications and statements from their browsers or other client applications connected to the Internet and have those statements broadcasted over the same stream via a text-to-voice speech engine just prior to playing the user's selected audio and/or video choice.
- 3 Radio is broadcasted over the Internet as is represented by box 10 in FIG. 1. The radio that is broadcasted by box 10 is broadcasted over the Internet to any computer that wants to log onto the web site for the radio Internet broadcast 10. The radio Internet broadcast 10 may be restricted to a particular regional geographical area or it may be countrywide or it may even be worldwide. A listener computer, which has a computer screen 12, can be logged onto the radio Internet broadcast 10. The listener computer can then make an initial request 14 by means of a search screen 16, which is shown in FIG. 2. Once an initial request has been input, this initial request is communicated back to the radio Internet broadcast 10. The listener will then have displayed a search results screen 18 also by means of the computer screen 12. This search results screen 18 is shown in FIG. 3. The final selection 15 is made by means of the search results screen 18. The search results screen 18 also has the option of creating a dedication 20. This dedication 20 is transmitted from the listener computer screen 12 to a text-to-speech engine 22 or upload of the user's voice file. The text-to-speech engine 22 or uploaded voice file is then coordinated with the radio broadcast 10 so upon playing of the final selection 15, the dedication 20 which has also been received by the radio Internet broadcast 10 will be played just prior to the final selection 15. This is done by taking the text that was input by the listener and reproducing it into computer generated spoken words by the text-to-speech engine 22, uploaded voice file, or spoken words by a live disc jockey. After the final selection 15 and the dedication 20 has been received by the radio Internet broadcast 10 and the text-to-speech engine 22, respectively, an accepted screen 24, FIG. 4, is shown on the listener computer screen 12. The associated dedication can then be emailed, for example, to the person it was dedicated to.
- 4 The radio Internet broadcast 10 has a library of audio and/or video files. Generally, these audio and/or video files will comprise of songs. However, other types of audio and/or video files could comprise comedic routines, dissertations, and so forth. The radio Internet broadcast 10 is programmed to play certain audio and/or video files in sequence. If there has not been an initial request 14, then that particular sequence will be followed. However, once a final selection 15 has been made, the final selection 15 will be given priority, that is, it will be played immediately following the currently playing audio and/or video File. If more than one selection that has been requested, as from multiple listeners, then each one of the final selections 15 will be played with the earliest accepted selection being played first (first in, first out basis).
- 5 Requests are audio and/or video files that are requested, such as songs. Dedications are the typed in or uploaded voice files that accompany requests. The dedication 20 is to be made by the listener typing on the listener's computer. The typing of the dedication 20 will be displayed in box 26 of the search results screen 18. The search results screen 18 will also display criteria that fit the initial request 14 in box 28 and allow for a final selection 15 to be submitted 32 with or without an accompanying dedication 20. For example, the listener may select a particular audio and/or video file. That audio and/or video file may be produced by ten different artists. The same audio and/or video file with the ten different artists will be displayed in box 28. The listener then has the option of selecting a specific artist and to highlight that section, and then by clicking the submit icon 32 the final selection 15 is

transmitted to the radio Internet broadcast 10. After the dedication 20 has been typed in box 26, the listener is to click the submit icon 32 which will then cause the typed words of the dedication 20 to be transmitted to the text-to-speech engine 22. The text-to-speech engine 22, uploaded voice file, or spoken words by a live disc jockey will then be broadcasted with the final selection 15 which has been transmitted to the radio Internet broadcast 10 so that when the final selection 15 is played, the dedication 20 in speech form, will be transmitted prior to broadcasting of the final selection 15.

- 6 The search screen 16 includes an artist selection block 34. The search screen 16 also includes audio and/or video file input block 36. If the listener makes a selection within the artist block 34 and inputs particular audio and/or video search criteria in block 36, then more than likely there will only be a single selection that will be reproduced within the block 28. However, if the listener only inputs a particular audio and/or video search criteria in block 36 and does not make an artist selection, then more than likely there will be multiple selections that will be reproduced in the block 28 from which the listener may select one. The same will also be true if the listener only selects a particular artist from block 34 but does not input any particular audio and/or video search criteria within block 36. The search will be initiated upon the listener pressing the submit 35 icon.
- 7 The accepted screen 24 will display information about when your particular selection will be displayed. It will tell you if there are audio and/or video files that are ahead of you and how many of these audio and/or video files are to be played prior to your audio and/or video file being played. The accepted screen 24 also includes a search again icon 38 and a home page icon 40. Pressing of the home page icon 40 will bring the listener back to the first or home page of the web site. Pressing of the search again icon 38 will bring screen 16 tip on the computer screen. When the listener makes a selection, the Internet site that contains the radio Internet broadcast 10 then searches a database, comprising of a programming interface for database access. This programming interface is based on the call-level interface specification from X/open and ISO/IE for database application programming interfacing and uses a structured query language as its database access language.
- 8 It is to be understood that most any device with Internet access could be used, whether it's a portable computer, desktop unit, or handheld device. The computer may or may not include a monitor, but of course, all computers do include a display screen. It is within the display screen that there will be displayed the screens 16, 18, and 24.
- 9 When the radio Internet broadcast 10 finds a song or other audio and/or video file in the request queue, it checks to see if there is any text dedication announcement or any other type of typed in statement stored with this audio and/or video file. If there is, then the radio Internet broadcast 10 calls on the text-to-speech engine 22, updated voice file, or spoken words by a live disc jockey to verbally reproduce the dedication entered by the listener and then plays the selected audio and/or video file. Of course, the text will be verbally broadcast prior to the playing of the particular audio and/or video file. If there isn't any dedication 20, then just the final selection 15 audio and/or video file will be played. All audio and/or video files are broadcasted by the radio Internet broadcast 10 over the Internet by way of streaming audio and/or video, which means that it is continuous.

CLAIMS:

What is claimed is:

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LIST ←
1. In an Internet radio broadcasting programmed to (play certain audio and/or video files in requested sequence), a method for broadcasting including listener requests and dedications comprising the steps of: a. Logging onto an Internet radio station by a computer by a listener; b. Displaying on a computer screen of the computer a search screen which allows the listener to input an initial request for an audio and/or video file; c. Selecting on the search screen by the

listener an initial requested audio and/or video file; d. Displaying on the computer screen of the computer a search results screen which displays one or more audio and/or video files which correspond to the audio and/or video file information requested by the listener; e. Choosing a finally selected audio and/or video file by the listener and submitting that final selection into the search results screen; f. Also displaying on the search results screen a dedication section allowing the listener to input optional dedications to be broadcasted with the final selected audio and/or video file; g. Inputting into the dedication section by the listener a dedication; h. Displaying on the computer screen an accepted screen which informs the listener when the final selection audio and/or video file is to be broadcasted with the accompanying dedications; and i. Broadcasting via media streaming the audio and/or video file and possible dedication over the Internet; wherein the dedication is transmitted from the computer screen of the listener to a text-to-voice speech engine, or is uploaded from a voice file of the listener, and coordinated with the media streaming to be played just prior to the corresponding selection; and wherein the final selection of the audio and/or video file including possible dedication is played immediately following a currently playing audio and/or video file in a requested sequence, or in accordance with first in, first out basis if more than one final selection is requested.

2. The method as defined in claim 1 wherein the audio and/or video file comprises a song.

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